

New York State Department of Transportation

Yellow Flag NB22CTW011

By: Rehan Afridi

Flag Date: April 05, 2022

Superseding Information:

This flag supersedes: YF NB2197W039

Structure Information

BIN: 1065318

Feature Carried: 278I278IX2M23027

Feature Crossed: 6TH AVENUE

Orientation: 8 - NORTHWEST

Region: 11 - NEW YORK CITY

County: KINGS

Political Unit: City of NEW YORK

Approximate Year Built: 1962

Posted Load Matches Inventory : Yes

Bridge Load Posting (Tons) : Not Posted for Load

Primary Owner: New York State Department of Transportation

Primary Maintenance Responsibility: 12 - State - Subcontracted to another Party

Typical or Main Span Type: 3 - Steel, 02 - Stringer/Multi-Beam or Girder

This Bridge is not a Ramp

Number of Spans: 322

Verbal Notification Information

Person Notified: Heinz Joachim, P.E.

Date: April 05, 2022 10:00:00 AM

Of: NYSDOT Region 11

Signature Information

Signature: Rehan Afridi, P.E. 075185

Date: April 19, 2022

Reviewed By: Robert Kemp

Date: April 19, 2022

Attachments: 6

Flagged Elements

Parent Element	Element	Total Quantity	Unit
Span Number : 242			
	107 - Steel Open Girder/Beam	989	ft
	PR831 - Steel Beam End	42	each

Flagged Condition Description

This Yellow Flag NB22CTW011 supersedes previously issued Yellow Flag NB2197W039.

Location: Span 242, Girder G1 at Pier 242 (Photo 1).

Description: The right connection angle at Girder G1 connection to the pier cap at Pier 242 exhibits a 2-1/8"H x 1/2"W (previously 2"H x 1/2") vertical corrosion crack at the lower fillet section and 2-3/4"H x 1"W (previously 2-1/2"H x 1"W) corrosion crack at the upper fillet section (Photos 2 and 3). The remaining 8.5 inches of the connection angle height exhibits up to 50% section loss.

The left connection angle exhibits a corrosion hole below the Girder web measuring 2"H x 1/2"W (previously 1-1/2"H x 1/2"W); a hole at the top portion measuring 1"H x 4" W (previously measuring 1" diameter), and a 2-1/4"H x 2"L hole (previously 2"H x 2"L) at the base (Photos 2 and 4). The remaining area of the left connection angle exhibits up to 30% section loss for 5"H at the top and up to 50% section loss at the lower section.

Notes:

1. The affected member, Girder G1 is a load path redundant steel girder consisting of a web depth of 19.5" inches and thickness of 0.606 inches and is located under the deck in the roadway, approximately 12" off the edge of curb line/safety walk. All dimensions were measured in the field.
2. The adjacent Girder G2, is 5'-5" on center, has repair plates and is in good condition.
3. The adjacent Stringer S1, approximately 24" on center, acts as a support for the railing and curb area above and exhibits up to 15%-30% section loss in the lower web and up to 30%-45% section loss to bottom flange with flaking of steel, on a length of approximately 2 feet from the pier.
4. A double left lane closure on 3rd Avenue Westbound travel direction with shadow vehicle and a 35' bucket truck is required to access the flagged location.

Flag Photographs

Photo Number: 1

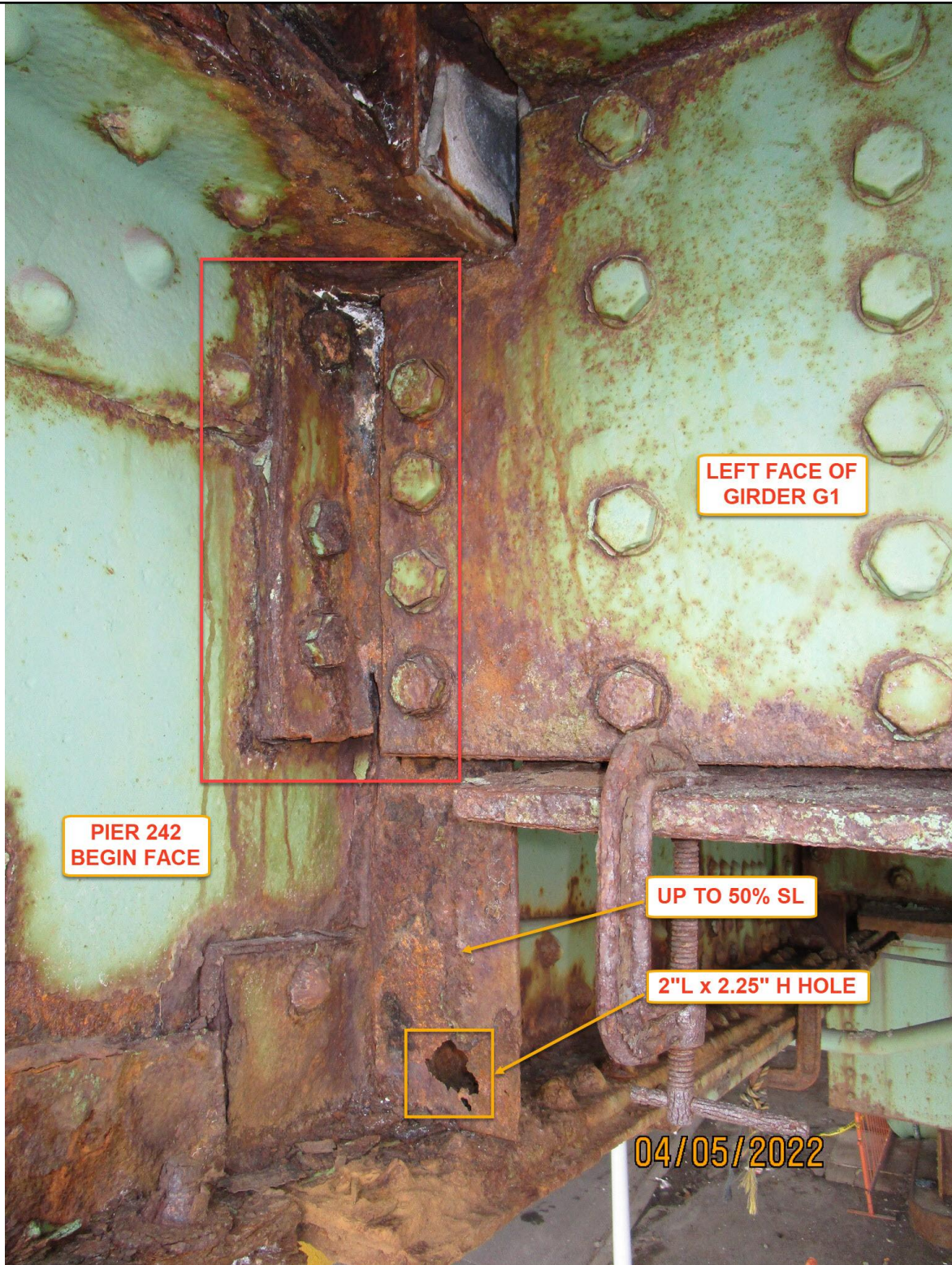
Photo Filename: Photo 1-RA 611 0458.jpg



Attachment Description: Span 242 Girder G1 at Pier 241 - General View of flagged location. Looking End Right.

Photo Number: 2

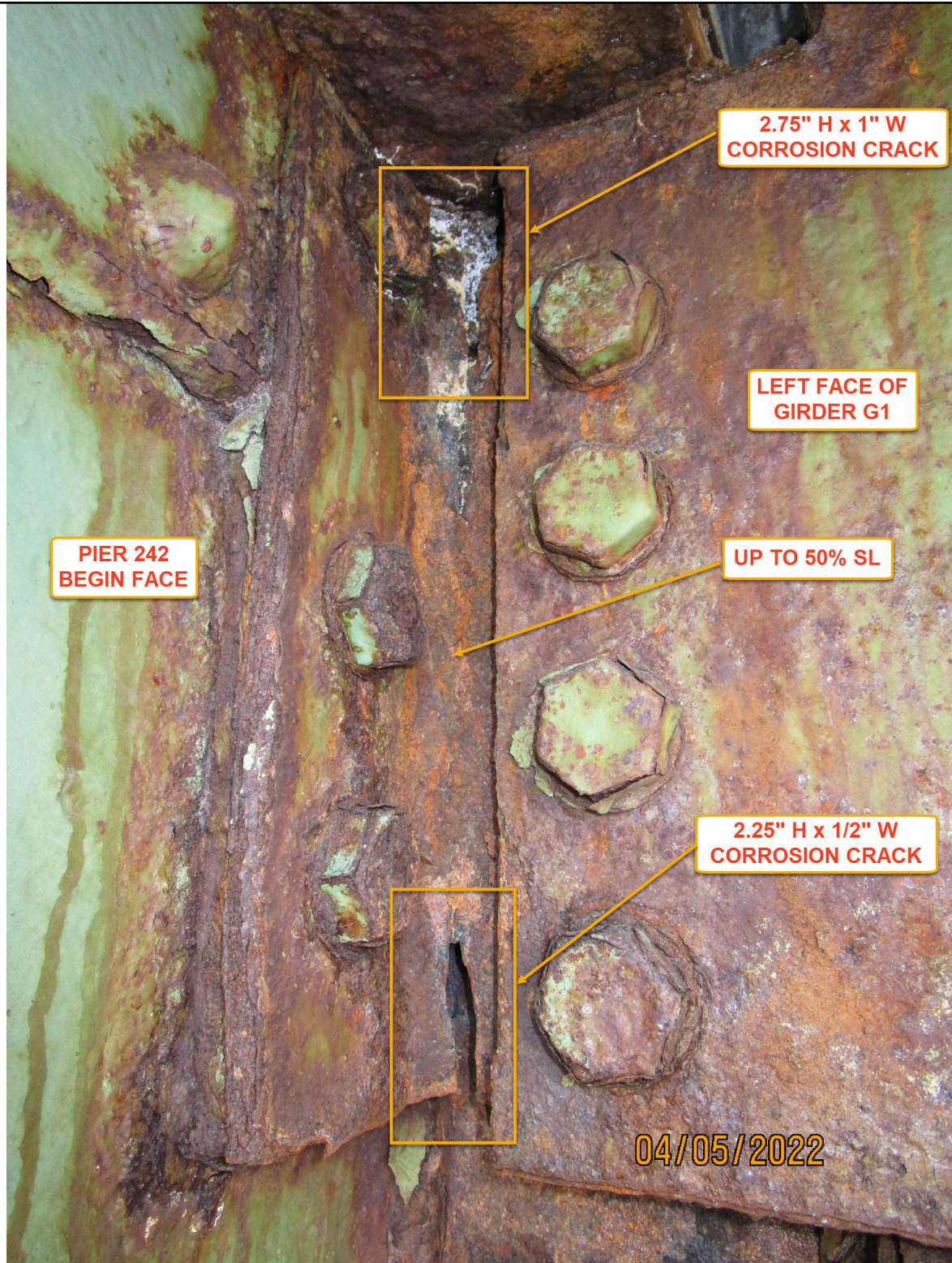
Photo Filename: Photo 2-RA 611_0460.jpg



Attachment Description: Span 242 Girder G1 at Pier 242 - Left Face. General View of Girder G1 end. Corrosion cracks and heavy section loss of the left connection angle. Looking Right.

Photo Number: 3

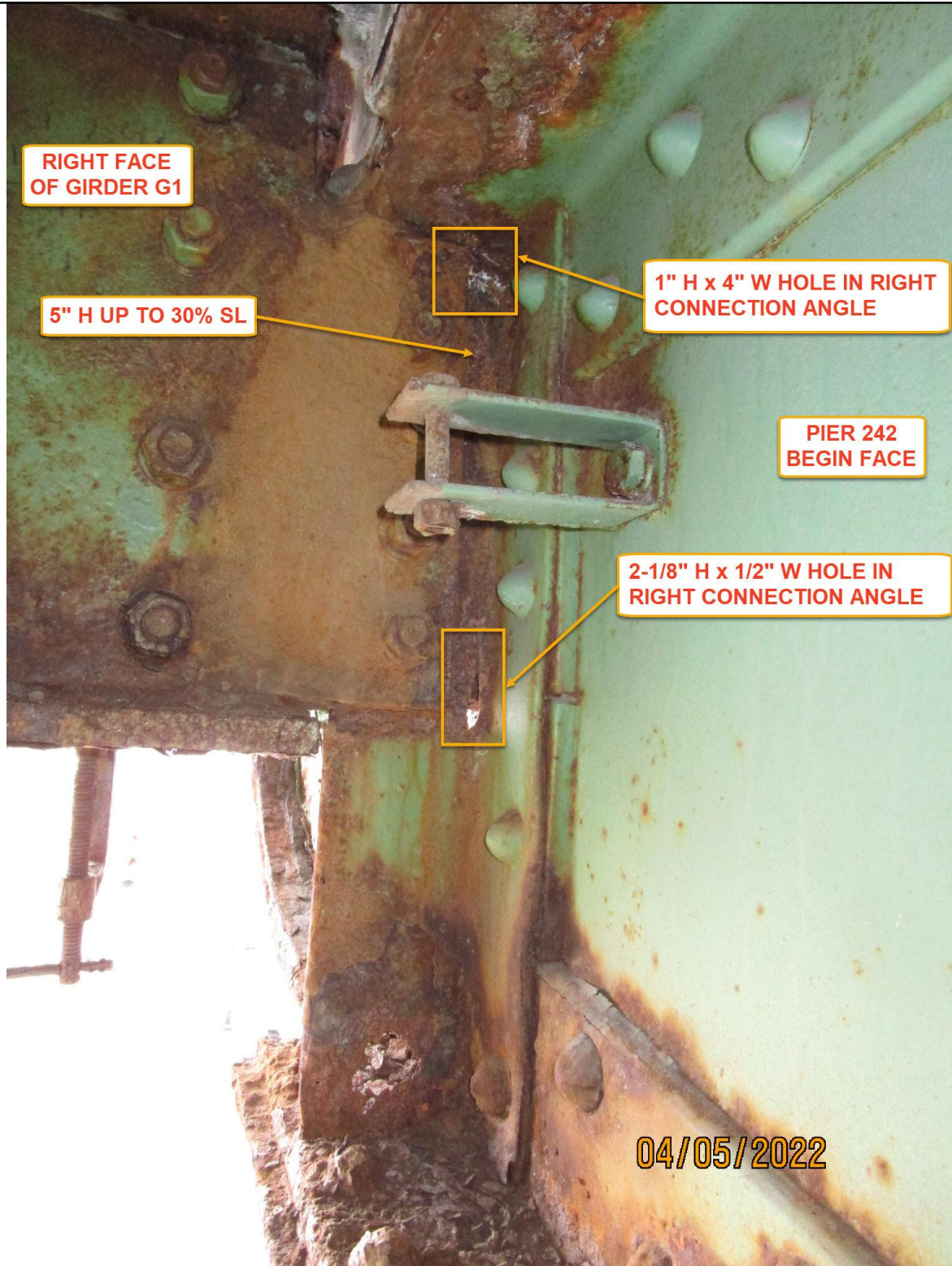
Photo Filename: Photo 3-RA 611_0462.jpg



Attachment Description: Span 242 Girder G1 at Pier 242 - Left Face. Close-up view of flagged location. Corrosion cracks and heavy section of the left connection angle. Looking Right.

Photo Number: 4

Photo Filename: Photo 4-RA 611_0469.jpg



Attachment Description: Span 242 Girder G1 at Pier 242 - Right face. Corrosion hole and section loss. Looking Left.

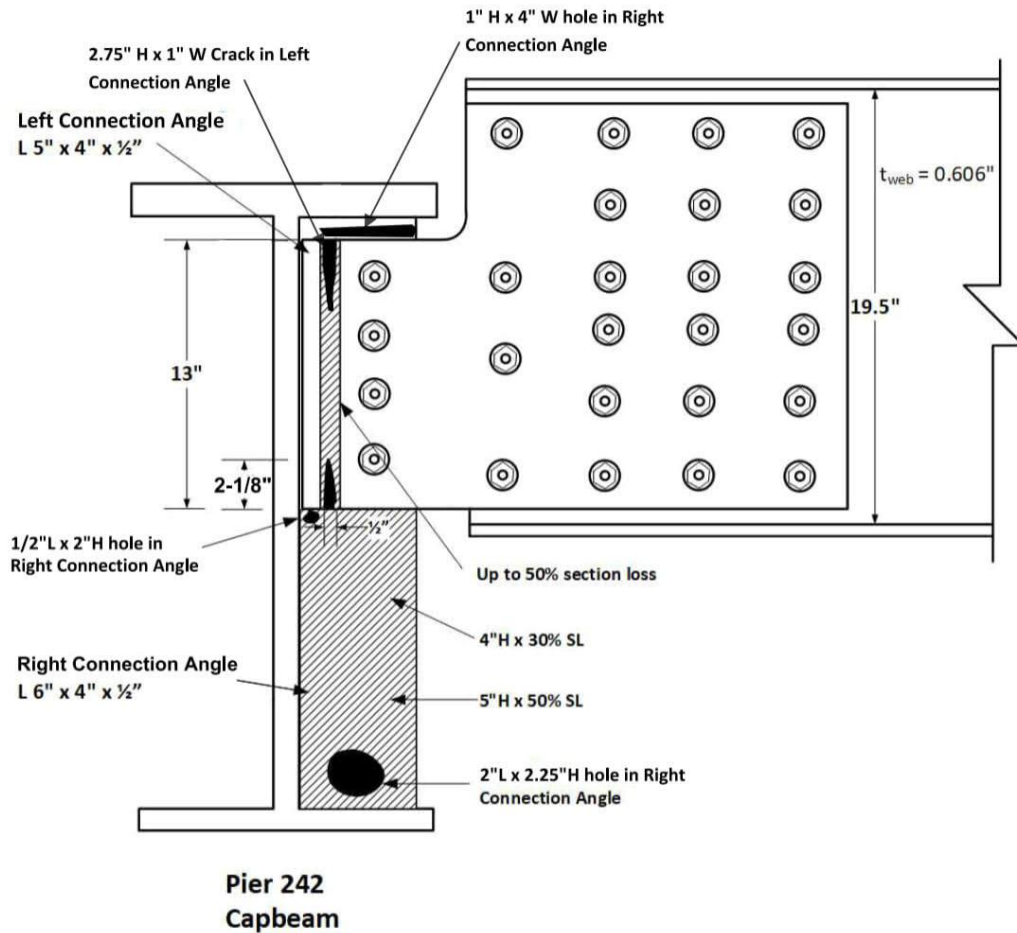
Photo Number: 5

Photo Filename: SN 242 G1 at Pier 242 Sketch.jpg

BIN: 1065318

Date: 04/05/22

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Legend:

● Corrosion hole/crack

Span 242, Girder G1 at Pier 242 (Looking right)

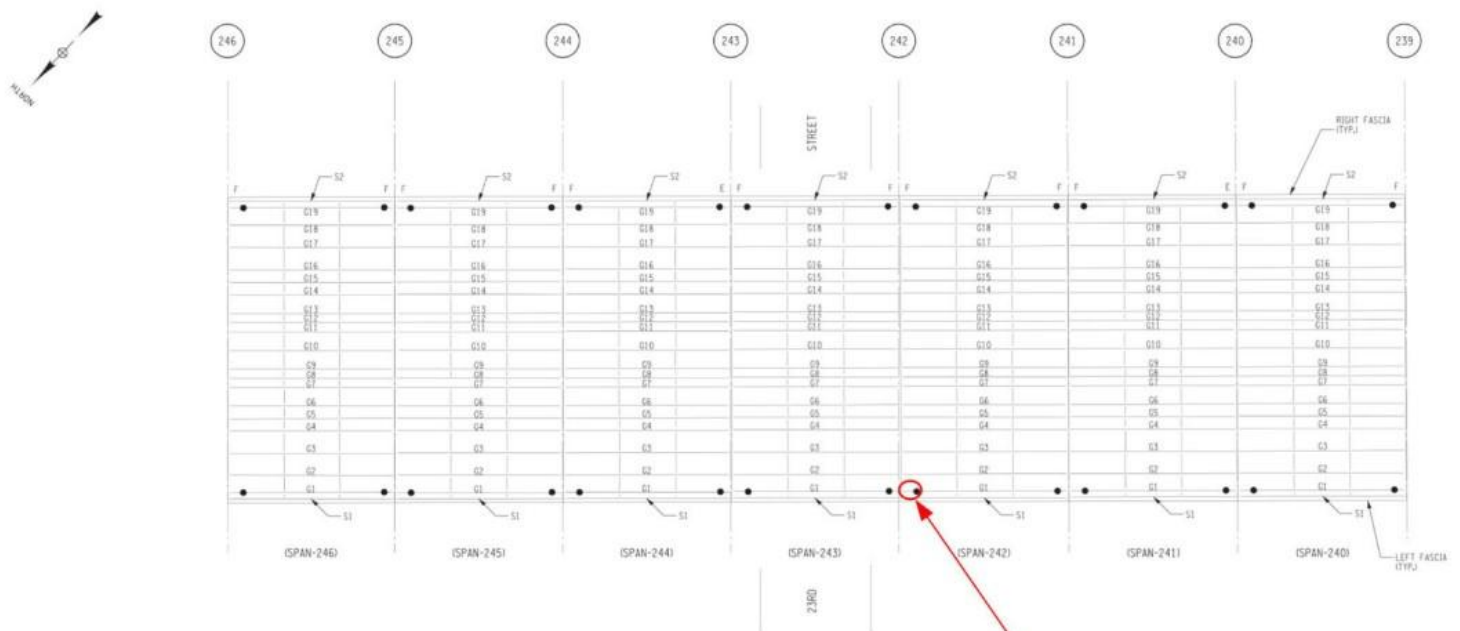
N.T.S.

Attachment Description: SN 242 G1 at Pier 242 Sketch

Photo Number: 6

Photo Filename: SN 242 G1 at Pier 242 Framing Plan - edit.jpg

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LEGEND:

E - Expansion Bearing Element PR311

F - Fixed Connection

G - Girder Element 107

S - Stringer Element 113

- End of partial length cover plate. Category E' requires 100% Hands on Inspection.

Location of
Yellow Flag

Attachment Description: SN 242 G1 at Pier 242 Framing Plan